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NEWS	4	DEC 08	INPADOC: Legal Status data reloaded
NEWS	5	SEP 29	DISSABS now available on STN
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NEWS	7	OCT 21	BIOSIS file reloaded and enhanced
NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
NEWS	10	DEC 08	CABA reloaded with left truncation
NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS	14	DEC 17	DGENE: Two new display fields added
NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
NEWS	22	FEB 05	German (DE) application and patent publication number format changes
NEWS EXPRESS			DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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=> s controlled release () brust free sustained programmable release  
L1 0 CONTROLLED RELEASE (W) BRUST FREE SUSTAINED PROGRAMMABLE RELEASE

=> s CFA/I  
'I' IS NOT A VALID FIELD CODE  
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L2 0 CFA/I

=> s polylactide () glycolide  
L3 256 POLYLACTIDE (W) GLYCOLIDE

=> d biocompatible and biodegradable composition  
'BIOCOMPATIBLE' IS NOT A VALID FORMAT

'AND' IS NOT A VALID FORMAT

'BIODEGRADABLE' IS NOT A VALID FORMAT

'COMPOSITION' IS NOT A VALID FORMAT

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=> s biocompatible and biodegradable composition

L4 58 BIOCOMPATIBLE AND BIODEGRADABLE COMPOSITION

=> s burst free programmable release form

L5 0 BURST FREE PROGRAMMABLE RELEASE FORM

=> d his

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS, JAPIO, FSTA, JICST-EPLUS, CEN, CEABA-VTB' ENTERED AT 11:44:54 ON 09 FEB 2004

L1 0 S CONTROLLED RELEASE () BURST FREE SUSTAINED PROGRAMMABLE RELEA

L2 0 S CFA/I

L3 256 S POLYLACTIDE () GLYCOLIDE

L4 58 S BIOCOMPATIBLE AND BIODEGRADABLE COMPOSITION

L5 0 S BURST FREE PROGRAMMABLE RELEASE FORM

=> s E. coli

5 FILES SEARCHED...

L6 320473 E. COLI

=> s microsphere

L7 33475 MICROSPHERE

=> s l7 and programmable release

L8 9 L7 AND PROGRAMMABLE RELEASE

=> s l7 and burst free

L9 10 L7 AND BURST FREE

=> s l9 and l8

L10 8 L9 AND L8

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L10 ANSWER 1 OF 8 USPATFULL on STN

TI Compositions and methods for reducing scar tissue formation

AB The present invention describes the application of sirolimus and analogs of sirolimus to treat wound healing and reduce scar tissue formation. Also contemplated are non-sirolimus compounds believed to interact with the mTOR protein that have similar effects. Specifically, various medium are contemplated to create, for example, microparticles, foams, gels, sprays and bioadhesives that may be administered during surgical procedures involving either open or closed surgical site. Coating medical devices for long-term implantation is contemplated as one method of use of the above compositions.

ACCESSION NUMBER: 2004:24390 USPATFULL

TITLE: Compositions and methods for reducing scar tissue formation

INVENTOR(S): Fischell, Robert E., Dayton, MD, UNITED STATES  
Fischell, Tim A., Kalamazoo, MI, UNITED STATES  
Fischell, Sarah T., Fair Haven, NJ, UNITED STATES  
Waldorf, Clayton MacKenzie, Richland, MI, UNITED STATES

PATENT ASSIGNEE(S): Afmedica, Inc., Kalamazoo, MI (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004018228	A1	20040129
APPLICATION INFO.:	US 2003-431701	A1	20030507 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2003-351207, filed on 24 Jan 2003, PENDING Continuation of Ser. No. US 2001-772693, filed on 31 Jan 2001, GRANTED, Pat. No. US 6534693 Continuation-in-part of Ser. No. US 2000-705999, filed on 6 Nov 2000, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Peter G. Carroll, MEDLEN & CARROLL, LLP, Suite 350, 101 Howard Street, San Francisco, CA, 94105		
NUMBER OF CLAIMS:	39		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	13 Drawing Page(s)		
LINE COUNT:	3687		

L10 ANSWER 2 OF 8 USPATFULL on STN

TI Vaccines against diseases caused by enteropathogenic organisms using antigens encapsulated within biodegradable-biocompatible microspheres

AB This invention relates to an immunostimulating composition comprising encapsulating microspheres, which may contain a pharmaceutically-acceptable adjuvant, wherein said microspheres having a diameter between 1 nanometer (nm) to 10 microns (um) are comprised of (a) a biodegradable-biocompatible poly(DL-lactide-co-glycolide) as the bulk matrix, wherein the relative ratio between the amount of lactide and glycolide components are within the range of 40:60 to 0:100 and wherein said poly (DL-lactide-co-glycolide) is present in an uncapped form and an end-capped form wherein a ratio of uncapped to end-capped forms is 99/1 to 1/99, and (b) an immunogenic substance comprising Colony Factor Antigen (CFA/II), hepatitis B surface antigen (HbsAg), or a physiologically similar antigen that serves to elicit the production of antibodies in animal subjects. The preparation of its composition and its use as a vaccine is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:231691 USPATFULL

TITLE: Vaccines against diseases caused by enteropathogenic organisms using antigens encapsulated within biodegradable-biocompatible microspheres

INVENTOR(S): Reid, Robert H., Kensington, MD, UNITED STATES  
Setterstrom, Jean A., Alpharetta, GA, UNITED STATES  
Boedeker, Edgar, Crownsville, MD, UNITED STATES  
VanHamont, John, Fort Meade, MD, UNITED STATES  
McQueen, Charles, Olney, MD, UNITED STATES  
Cassels, Frederick, Ellicott City, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003161889	A1	20030828
APPLICATION INFO.:	US 2002-224125	A1	20020820 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-9986, filed on 21 Jan 1998, PENDING Continuation-in-part of Ser. No. US 1997-789734, filed on 27 Jan 1997, GRANTED, Pat. No. US 6309669 Continuation-in-part of Ser. No. US 1994-362944, filed on 23 Dec 1994, ABANDONED Continuation of Ser. No. US 1993-34949, filed on 22 Mar 1993, ABANDONED Continuation-in-part of Ser. No. US 1992-867301, filed on 10 Apr 1992, GRANTED, Pat. No. US 5417986 Continuation-in-part of Ser. No. US 1991-805721, filed on 21 Nov 1991, ABANDONED		

Continuation-in-part of Ser. No. US 1991-690485, filed on 24 Apr 1991, ABANDONED Continuation-in-part of Ser. No. US 1990-521945, filed on 11 May 1990, ABANDONED Continuation-in-part of Ser. No. US 1990-493597, filed on 15 Mar 1990, ABANDONED Continuation-in-part of Ser. No. US 1984-590308, filed on 16 Mar 1984, ABANDONED

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Nash & Titus, LLC, 3415 Brookeville Road, Brookeville, MD, 20833  
NUMBER OF CLAIMS: 33  
EXEMPLARY CLAIM: 22  
NUMBER OF DRAWINGS: 70 Drawing Page(s)  
LINE COUNT: 3915  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 8 USPATFULL on STN

TI Sustained release hydrophobic bioactive PLGA microspheres  
AB A controlled release microcapsulate pharmaceutical formulation for **burst-free**, sustained, **programmable release** of hydrophobic bioactive agent over a duration from 24 hours to 100 days comprising: and a blend of end-capped uncapped biocompatible, biodegradable poly(lactide/glycolide).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:187446 USPATFULL  
TITLE: Sustained release hydrophobic bioactive PLGA microspheres  
INVENTOR(S): Vook, Noelle Christine, Schaumburg, IL, UNITED STATES  
Jacob, Elliott, Silver Spring, MD, UNITED STATES  
Setterstrom, Jean A., Alpharetta, GA, UNITED STATES  
Hamont, John van, West Point, NY, UNITED STATES  
Vaughan, William, Silver Spring, MD, UNITED STATES  
Duong, Ha, Montclair, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003129233	A1	20030710
APPLICATION INFO.:	US 2002-165975	A1	20020610 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-920326, filed on 21 Aug 1997, GRANTED, Pat. No. US 6447796		
	Continuation-in-part of Ser. No. US 1996-698896, filed on 16 Aug 1996, GRANTED, Pat. No. US 5705197		
	Continuation-in-part of Ser. No. US 1994-242960, filed on 16 May 1994, GRANTED, Pat. No. US 5693343		
	Continuation-in-part of Ser. No. US 1996-675895, filed on 5 Jul 1996, GRANTED, Pat. No. US 6217911		
	Continuation-in-part of Ser. No. US 1997-789734, filed on 27 Jan 1997, GRANTED, Pat. No. US 6309669		
	Continuation-in-part of Ser. No. US 1996-590973, filed on 24 Jan 1996, ABANDONED Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995, ABANDONED		
	Continuation-in-part of Ser. No. US 1995-446148, filed on 22 May 1995, GRANTED, Pat. No. US 6410056		

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Nash & Titus, LLC, Suite 1000, 3415 Brookeville Road, Brookeville, MD, 20833  
NUMBER OF CLAIMS: 19  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 21 Drawing Page(s)  
LINE COUNT: 1850  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 8 USPATFULL on STN

TI Sustained release non-steroidal, anti-inflammatory and lidocaine PLGA microspheres  
AB A controlled release microcapsule pharmaceutical formulation for **burst-free**, sustained, **programmable release** of a non-steroidal, antiinflammatory drug over a duration from 24 hours to 2 months, comprising: a non-steroidal, antiinflammatory drug and a blend of biocompatible, biodegradable poly (lactide/glycolide).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:59966 USPATFULL  
TITLE: Sustained release non-steroidal, anti-inflammatory and lidocaine PLGA microspheres  
INVENTOR(S): Vaughn, William M., Silver Spring, MD, United States  
Van Hamont, John E., Ft. Meade, MD, United States  
Setterstrom, Jean A., Alpharetta, GA, United States  
PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Army, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6528097	B1	20030304
APPLICATION INFO.:	US 2000-716856		20001120 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-675895, filed on 5 Jul 1996, now patented, Pat. No. US 6217911 Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995, now abandoned Continuation of Ser. No. US 1984-590308, filed on 16 Mar 1984, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Travers, Russell		
ASSISTANT EXAMINER:	Willis, Michael A.		
LEGAL REPRESENTATIVE:	Arwine, Elizabeth		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	870		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

*Applicant*

L10 ANSWER 5 OF 8 USPATFULL on STN

TI Sustained release hydrophobic bioactive PLGA microspheres  
AB A controlled release microcapsulate pharmaceutical formulation for **burst-free**, sustained, **programmable release** of hydrophobic bioactive agent over a duration from 24 hours to 100 days comprising: and a blend of end-capped uncapped biocompatible, biodegradable poly(lactide/glycolide).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:230620 USPATFULL  
TITLE: Sustained release hydrophobic bioactive PLGA microspheres  
INVENTOR(S): Vook, Noelle Christine, Schaumburg, IL, United States  
Jacob, Elliott, Silver Spring, MD, United States  
Setterstrom, Jean A., Alpharetta, GA, United States  
van Hamont, John, West Point, NY, United States  
Vaughan, William, Silver Spring, MD, United States  
Duong, Ha, Montclair, CA, United States  
PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Army, Washington, DC, United States (U.S. government)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6447796 B1 20020910  
APPLICATION INFO.: US 1997-920326 19970821 (8)  
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-698896, filed  
on 16 Aug 1996, now patented, Pat. No. US 5705197  
Continuation-in-part of Ser. No. US 1994-242960, filed  
on 16 May 1994, now patented, Pat. No. US 5693343  
Continuation-in-part of Ser. No. US 1996-675895, filed  
on 5 Jul 1996, now patented, Pat. No. US 6217911  
Continuation-in-part of Ser. No. US 1997-789734, filed  
on 27 Jan 1997, now patented, Pat. No. US 6309669  
Continuation-in-part of Ser. No. US 1996-590973, filed  
on 24 Jan 1996, now abandoned Continuation-in-part of  
Ser. No. US 1995-446149, filed on 22 May 1995, now  
abandoned Continuation-in-part of Ser. No. US  
1995-446148, filed on 22 May 1995  
DOCUMENT TYPE: Utility  
FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Criares, Theodore J.  
LEGAL REPRESENTATIVE: Arwine, Elizabeth, Harris, Charles H., Moran, John  
Francis  
NUMBER OF CLAIMS: 18  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 24 Drawing Figure(s); 21 Drawing Page(s)  
LINE COUNT: 1770  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 8 USPATFULL on STN

TI Therapeutic treatment and prevention of infections with a bioactive  
materials encapsulated within a biodegradable-biocompatible polymeric  
matrix  
AB Novel **burst-free**, sustained release biocompatible  
and biodegradable microcapsules which can be programmed to release their  
active core for variable durations ranging from 1-100 days in an aqueous  
physiological environment. The microcapsules are comprised of a core of  
polypeptide or other biologically active agent encapsulated in a matrix  
of poly(lactide/glycolide) copolymer, which may contain a  
pharmaceutically-acceptable adjuvant, as a blend of uncapped free  
carboxyl end group and end-capped forms ranging in ratios from 100/0 to  
1/99.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:190752 USPATFULL  
TITLE: Therapeutic treatment and prevention of infections with  
a bioactive materials encapsulated within a  
biodegradable-biocompatible polymeric matrix  
INVENTOR(S): Setterstrom, Jean A., Alpharetta, GA, United States  
Van Hamont, John E., Fort Meade, MD, United States  
Reid, Robert H., McComas, CT, United States  
Jacob, Elliot, Silver Spring, MD, United States  
Jeyanthi, Ramasubbu, Columbia, MD, United States  
Boedeker, Edgar C., Chevy Chase, MD, United States  
McQueen, Charles E., Olney, MD, United States  
Jarboe, Daniel L., Silver Spring, MD, United States  
Cassels, Frederick, Ellicott City, MD, United States  
Brown, William, Denver, CO, United States  
Thies, Curt, Ballwin, MO, United States  
Tice, Thomas R., Birmingham, AL, United States  
Roberts, F. Donald, Dover, MA, United States  
Friden, Phil, Bedford, MA, United States(4)  
PATENT ASSIGNEE(S): The United States of America as represented by the  
Secretary of the Army, Washington, DC, United States  
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6309669	B1	20011030
APPLICATION INFO.:	US 1997-789734		19970127 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-590973, filed on 24 Jan 1996, now abandoned Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995, now abandoned Continuation of Ser. No. US 1984-590308, filed on 6 Mar 1984, now abandoned And Ser. No. US 789734 Continuation-in-part of Ser. No. US 1995-446148, filed on 22 May 1995 Continuation-in-part of Ser. No. US 1992-867301, filed on 10 Apr 1992, now patented, Pat. No. US 5417986, issued on 23 May 1995 Continuation-in-part of Ser. No. US 1984-590308, filed on 16 Mar 1984, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Harrison, Robert H.		
LEGAL REPRESENTATIVE:	Nash, Caroline, Arwine, Elizabeth		
NUMBER OF CLAIMS:	25		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	87 Drawing Figure(s); 85 Drawing Page(s)		
LINE COUNT:	6182		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L10 ANSWER 7 OF 8 USPATFULL on STN

TI sustained release non-steroidal, anti-inflammatory and lidocaine PLGA microspheres

AB A controlled release microcapsule pharmaceutical formulation for **burst-free**, sustained, **programmable release** of a non-steroidal, antiinflammatory drug over a duration from 24 hours to 2 months, comprising: a non-steroidal, antiinflammatory drug and a blend of biocompatible, biodegradable poly (lactide/glycolide).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:55489 USPATFULL

TITLE: sustained release non-steroidal, anti-inflammatory and lidocaine PLGA microspheres

INVENTOR(S): Vaugn, William M., Silver Spring, MD, United States  
Van Hamont, John E., Ft. Meade, MD, United States  
Setterstrom, Jean A., Alpharetta, GA, United States

PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Army, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6217911	B1	20010417
APPLICATION INFO.:	US 1996-675895		19960705 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Harrison, Robert H.		
LEGAL REPRESENTATIVE:	Arwine, Elizabeth, Harris, Charles H.		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	861		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L10 ANSWER 8 OF 8 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Preparation of controlled released microcapsule formulation comprises



dissolving drug and mixture of uncapped and end-capped biocompatible polymer in organic solvent and evaporating solvent.

AN 2003-615263 [58] WPIDS

CR 1991-295351 [40]; 1995-199683 [26]; 1996-019737 [02]; 1997-393337 [36]; 1998-031704 [03]; 1998-129287 [12]; 1998-347245 [30]; 1998-437043 [37]; 2001-396353 [42]; 2003-101718 [09]; 2003-730422 [69]

AB US 6528097 B UPAB: 20031027

NOVELTY - Preparation of controlled release microcapsule formulation comprises:

(I) dissolving a non-steroidal, anti-inflammatory drug and a mixture of uncapped biocompatible, biodegradable poly(lactide/glycolide) polymer and end-capped biocompatible, biodegradable poly(lactide/glycolide) polymer in an organic solvent;

(II) dispersing the dissolved mixture; and

(III) evaporating the solvent.

DETAILED DESCRIPTION - Preparation of controlled release microcapsule formulation for **programmable release** of non-steroidal anti-inflammatory drug comprises either:

(1) Process A:

(a) dissolving a non-steroidal, anti-inflammatory drug and a mixture of uncapped biocompatible, biodegradable poly(lactide/glycolide) polymer and end-capped biocompatible, biodegradable poly(lactide/glycolide) polymer in a volatile organic solvent;

(b) dispersing the dissolved mixture in an aqueous phase containing emulsion stabilizer; and

(c) evaporating the organic solvent phase to obtain non-steroidal anti-inflammatory drug loaded **microsphere**; or

(2) Process B:

(a) dissolving a non-steroidal, anti-inflammatory drug and a mixture of uncapped biocompatible, biodegradable poly(lactide/glycolide) polymer and end-capped biocompatible, biodegradable poly(lactide/glycolide) polymer in an polar organic solvent;

(b) dispersing the dissolved drug in a non-polar organic phase;

(c) pouring the emulsion into a hydrocarbon solvent; and

(d) extracting the polar organic phase into the hydrocarbon solvent to form **microsphere**.

An INDEPENDENT CLAIM is also included for the preparation of a controlled release microcapsule formulation for **programmable release** of a long acting local anesthetic comprising:

(A) dissolving long-acting local anesthetic and a mixture of uncapped biocompatible, biodegradable poly(lactide/glycolide) polymer and end-capped biocompatible, biodegradable poly (lactide/glycolide) polymer in a volatile organic solvent;

(B) dispersing the local anesthetic and volatile organic solvent in an aqueous phase containing emulsion stabilizer; and

(C) evaporating the volatile organic solvent to precipitate microspheres of local anesthetic and poly(lactide/glycolide) microspheres.

ACTIVITY - Analgesic; Antiarthritic.

MECHANISM OF ACTION - None given.

USE - For preparing a controlled release microcapsule formulation (claimed) for drugs, e.g. non-steroidal antiinflammatory drug; for treating pain, arthritis.

ADVANTAGE - The composition is **burst free** and has sustained **programmable release** of drugs. The drug is evenly distributed through poly(lactide/glycolide) matrix.

Dwg.0/10

ACCESSION NUMBER: 2003-615263 [58] WPIDS

CROSS REFERENCE: 1991-295351 [40]; 1995-199683 [26]; 1996-019737 [02]; 1997-393337 [36]; 1998-031704 [03]; 1998-129287 [12]; 1998-347245 [30]; 1998-437043 [37]; 2001-396353 [42]; 2003-101718 [09]; 2003-730422 [69]

DOC. NO. NON-CPI: N2003-489883

DOC. NO. CPI: C2003-167740

TITLE: Preparation of controlled released microcapsule

formulation comprises dissolving drug and mixture of uncapped and end-capped biocompatible polymer in organic solvent and evaporating solvent.

DERWENT CLASS: A23 A96 B05 B07 P32  
INVENTOR(S): SETTERSTROM, J A; VAN HAMONT, J E; VAUGHN, W M  
PATENT ASSIGNEE(S): (USSA) US SEC OF ARMY  
COUNTRY COUNT: 1  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 6528097	B1	20030304	(200358)*		16

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 6528097	B1 Cont of	US 1984-590308	19840316
	CIP of	US 1995-446149	19950522
	Div ex	US 1996-675895	19960705
		US 2000-716856	20001120

FILING DETAILS:

PATENT NO	KIND	PATENT NO
US 6528097	B1 Div ex	US 6217911

PRIORITY APPLN. INFO: US 1996-675895 19960705; US 1984-590308  
19840316; US 1995-446149 19950522; US  
2000-716856 20001120

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(FILE 'HOME' ENTERED AT 11:44:27 ON 09 FEB 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS, JAPIO, FSTA,  
JICST-EPLUS, CEN, CEABA-VTB' ENTERED AT 11:44:54 ON 09 FEB 2004

L1 0 S CONTROLLED RELEASE () BRUST FREE SUSTAINED PROGRAMMABLE RELEA  
L2 0 S CFA/I  
L3 256 S POLYLACTIDE () GLYCOLIDE  
L4 58 S BIOCOMPATIBLE AND BIODEGRADABLE COMPOSITION  
L5 0 S BRUST FREE PROGRAMMABLE RELEASE FORM  
L6 320473 S E. COLI  
L7 33475 S MICROSPHERE  
L8 9 S L7 AND PROGRAMMABLE RELEASE  
L9 10 S L7 AND BURST FREE  
L10 8 S L9 AND L8

=> s l3 and l10

L11 1 L3 AND L10

=> d l11 ti abs ibib tot

L11 ANSWER 1 OF 1 USPATFULL on STN

TI Therapeutic treatment and prevention of infections with a bioactive materials encapsulated within a biodegradable-biocompatible polymeric matrix

AB Novel **burst-free**, sustained release biocompatible and biodegradable microcapsules which can be programmed to release their active core for variable durations ranging from 1-100 days in an aqueous physiological environment. The microcapsules are comprised of a core of polypeptide or other biologically active agent encapsulated in a matrix

of poly(lactide/glycolide) copolymer, which may contain a pharmaceutically-acceptable adjuvant, as a blend of uncapped free carboxyl end group and end-capped forms ranging in ratios from 100/0 to 1/99.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:190752 USPATFULL

TITLE: Therapeutic treatment and prevention of infections with a bioactive materials encapsulated within a biodegradable-biocompatible polymeric matrix

INVENTOR(S): Setterstrom, Jean A., Alpharetta, GA, United States  
Van Hamont, John E., Fort Meade, MD, United States  
Reid, Robert H., McComas, CT, United States  
Jacob, Elliot, Silver Spring, MD, United States  
Jeyanthi, Ramasubbu, Columbia, MD, United States  
Boedeker, Edgar C., Chevy Chase, MD, United States  
McQueen, Charles E., Olney, MD, United States  
Jarboe, Daniel L., Silver Spring, MD, United States  
Cassels, Frederick, Ellicott City, MD, United States  
Brown, William, Denver, CO, United States  
Thies, Curt, Ballwin, MO, United States  
Tice, Thomas R., Birmingham, AL, United States  
Roberts, F. Donald, Dover, MA, United States  
Friden, Phil, Bedford, MA, United States(4)

PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Army, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6309669	B1	20011030
APPLICATION INFO.:	US 1997-789734		19970127 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-590973, filed on 24 Jan 1996, now abandoned Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995, now abandoned Continuation of Ser. No. US 1984-590308, filed on 6 Mar 1984, now abandoned And Ser. No. US 789734 Continuation-in-part of Ser. No. US 1995-446148, filed on 22 May 1995 Continuation-in-part of Ser. No. US 1992-867301, filed on 10 Apr 1992, now patented, Pat. No. US 5417986, issued on 23 May 1995 Continuation-in-part of Ser. No. US 1984-590308, filed on 16 Mar 1984, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Harrison, Robert H.		
LEGAL REPRESENTATIVE:	Nash, Caroline, Arwine, Elizabeth		
NUMBER OF CLAIMS:	25		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	87 Drawing Figure(s); 85 Drawing Page(s)		
LINE COUNT:	6182		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 11:44:27 ON 09 FEB 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS, JAPIO, FSTA, JICST-EPLUS, CEN, CEABA-VTB' ENTERED AT 11:44:54 ON 09 FEB 2004

L1 0 S CONTROLLED RELEASE () BRUST FREE SUSTAINED PROGRAMMABLE RELEA  
L2 0 S CFA/I  
L3 256 S POLYLACTIDE () GLYCOLIDE  
L4 58 S BIOCOMPATIBLE AND BIODEGRADABLE COMPOSITION

L5           0 S BRUST FREE PROGRAMMABLE RELEASE FORM  
 L6       320473 S E. COLI  
 L7       33475 S MICROSPHERE  
 L8           9 S L7 AND PROGRAMMABLE RELEASE  
 L9       10 S L7 AND BURST FREE  
 L10       8 S L9 AND L8  
 L11       1 S L3 AND L10

=> e setterstrom, j/au  
 E1       17       SETTERSTROM JEAN A/AU  
 E2       1       SETTERSTROM WILLIAM R/AU  
 E3       0 --> SETTERSTROM, J/AU  
 E4       1       SETTERTBULTE WOLFGANG/AU  
 E5       5       SETTERTOBULTE W/AU  
 E6       13       SETTERWALL F/AU  
 E7       2       SETTERWALL FREDRIK/AU  
 E8       1       SETTERWALL M/AU  
 E9       1       SETTES G G/AU  
 E10      21       SETTESOLDI D/AU  
 E11      6       SETTESOLDI DANIELA/AU  
 E12      1       SETTESTROM J A/AU

=> s el  
 L12       17 "SETTERSTROM JEAN A"/AU

=> d l12 ti abs ibib tot

L12 ANSWER 1 OF 17 USPATFULL on STN

TI       Vaccines against diseases caused by enteropathogenic organisms using  
 antigens encapsulated within biodegradable-biocompatible microspheres  
 AB       This invention relates to an immunostimulating composition comprising  
 encapsulating microspheres, which may contain a pharmaceutically-  
 acceptable adjuvant, wherein said microspheres having a diameter between  
 1 nanometer (nm) to 10 microns (um) are comprised of (a) a  
 biodegradable-biocompatible poly(DL-lactide-co-glycolide) as the bulk  
 matrix, wherein the relative ratio between the amount of lactide and  
 glycolide components are within the range of 40:60 to 0:100 and wherein  
 said poly (DL-lactide-co-glycolide) is present in an uncapped form and  
 an end-capped form wherin a ratio of uncapped to end-capped forms is  
 99/1 to 1/99, and (b) an immunogenic substance comprising Colony Factor  
 Antigen (CFA/II), hepatitis B surface antigen (HbsAg), or a  
 physiologically similar antigen that serves to elicit the production of  
 antibodies in animal subjects. The preparation of its composition and  
 its use as a vaccine is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:       2003:231691 USPATFULL

TITLE:               Vaccines against diseases caused by enteropathogenic  
 organisms using antigens encapsulated within  
 biodegradable-biocompatible microspheres

INVENTOR(S):       Reid, Robert H., Kensington, MD, UNITED STATES  
                     **Setterstrom, Jean A.**, Alpharetta, GA, UNITED  
                     STATES  
                     Boedeker, Edgar, Crownsville, MD, UNITED STATES  
                     VanHamont, John, Fort Meade, MD, UNITED STATES  
                     McQueen, Charles, Olney, MD, UNITED STATES  
                     Cassels, Frederick, Ellicott City, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003161889	A1	20030828
APPLICATION INFO.:	US 2002-224125	A1	20020820 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-9986, filed on 21 Jan 1998, PENDING Continuation-in-part of Ser. No.		

US 1997-789734, filed on 27 Jan 1997, GRANTED, Pat. No. US 6309669 Continuation-in-part of Ser. No. US 1994-362944, filed on 23 Dec 1994, ABANDONED Continuation of Ser. No. US 1993-34949, filed on 22 Mar 1993, ABANDONED Continuation-in-part of Ser. No. US 1992-867301, filed on 10 Apr 1992, GRANTED, Pat. No. US 5417986 Continuation-in-part of Ser. No. US 1991-805721, filed on 21 Nov 1991, ABANDONED Continuation-in-part of Ser. No. US 1991-690485, filed on 24 Apr 1991, ABANDONED Continuation-in-part of Ser. No. US 1990-521945, filed on 11 May 1990, ABANDONED Continuation-in-part of Ser. No. US 1990-493597, filed on 15 Mar 1990, ABANDONED Continuation-in-part of Ser. No. US 1984-590308, filed on 16 Mar 1984, ABANDONED

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Nash & Titus, LLC, 3415 Brookeville Road, Brookeville, MD, 20833  
NUMBER OF CLAIMS: 33  
EXEMPLARY CLAIM: 22  
NUMBER OF DRAWINGS: 70 Drawing Page(s)  
LINE COUNT: 3915  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 2 OF 17 USPATFULL on STN

TI Sustained release hydrophobic bioactive PLGA microspheres  
AB A controlled release microcapsulate pharmaceutical formulation for burst-free, sustained, programmable release of hydrophobic bioactive agent over a duration from 24 hours to 100 days comprising: and a blend of end-capped uncapped biocompatible, biodegradable poly(lactide/glycolide).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:187446 USPATFULL  
TITLE: Sustained release hydrophobic bioactive PLGA microspheres  
INVENTOR(S): Vook, Noelle Christine, Schaumburg, IL, UNITED STATES  
Jacob, Elliott, Silver Spring, MD, UNITED STATES  
Setterstrom, Jean A., Alpharetta, GA, UNITED STATES  
Hamont, John van, West Point, NY, UNITED STATES  
Vaughan, William, Silver Spring, MD, UNITED STATES  
Duong, Ha, Montclair, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003129233	A1	20030710
APPLICATION INFO.:	US 2002-165975	A1	20020610 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-920326, filed on 21 Aug 1997, GRANTED, Pat. No. US 6447796		
	Continuation-in-part of Ser. No. US 1996-698896, filed on 16 Aug 1996, GRANTED, Pat. No. US 5705197		
	Continuation-in-part of Ser. No. US 1994-242960, filed on 16 May 1994, GRANTED, Pat. No. US 5693343		
	Continuation-in-part of Ser. No. US 1996-675895, filed on 5 Jul 1996, GRANTED, Pat. No. US 6217911		
	Continuation-in-part of Ser. No. US 1997-789734, filed on 27 Jan 1997, GRANTED, Pat. No. US 6309669		
	Continuation-in-part of Ser. No. US 1996-590973, filed on 24 Jan 1996, ABANDONED Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995, ABANDONED		
	Continuation-in-part of Ser. No. US 1995-446148, filed on 22 May 1995, GRANTED, Pat. No. US 6410056		
DOCUMENT TYPE:	Utility		

FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Nash & Titus, LLC, Suite 1000, 3415 Brookeville Road,  
Brookeville, MD, 20833  
NUMBER OF CLAIMS: 19  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 21 Drawing Page(s)  
LINE COUNT: 1850  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 3 OF 17 USPATFULL on STN

TI Sustained release non-steroidal, anti-inflammatory and lidocaine PLGA  
microspheres  
AB A controlled release microcapsule pharmaceutical formulation for  
burst-free, sustained, programmable release of a non-steroidal,  
antiinflammatory drug over a duration from 24 hours to 2 months,  
comprising: a non-steroidal, antiinflammatory drug and a blend of  
biocompatible, biodegradable poly (lactide/glycolide).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:59966 USPATFULL  
TITLE: Sustained release non-steroidal, anti-inflammatory and  
lidocaine PLGA microspheres  
INVENTOR(S): Vaughn, William M., Silver Spring, MD, United States  
Van Hamont, John E., Ft. Meade, MD, United States  
Setterstrom, Jean A., Alpharetta, GA, United  
States  
PATENT ASSIGNEE(S): The United States of America as represented by the  
Secretary of the Army, Washington, DC, United States  
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6528097	B1	20030304
APPLICATION INFO.:	US 2000-716856		20001120 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-675895, filed on 5 Jul 1996, now patented, Pat. No. US 6217911 Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995, now abandoned Continuation of Ser. No. US 1984-590308, filed on 16 Mar 1984, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Travers, Russell		
ASSISTANT EXAMINER:	Willis, Michael A.		
LEGAL REPRESENTATIVE:	Arwine, Elizabeth		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	870		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 4 OF 17 USPATFULL on STN

TI Sustained release hydrophobic bioactive PLGA microspheres  
AB A controlled release microcapsulate pharmaceutical formulation for  
burst-free, sustained, programmable release of hydrophobic bioactive  
agent over a duration from 24 hours to 100 days comprising: and a blend  
of end-capped uncapped biocompatible, biodegradable  
poly(lactide/glycolide).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:230620 USPATFULL  
TITLE: Sustained release hydrophobic bioactive PLGA  
microspheres  
INVENTOR(S): Vook, Noelle Christine, Schaumburg, IL, United States  
Jacob, Elliott, Silver Spring, MD, United States

**Setterstrom, Jean A.**, Alpharetta, GA, United States  
van Hamont, John, West Point, NY, United States  
Vaughan, William, Silver Spring, MD, United States  
Duong, Ha, Montclair, CA, United States  
PATENT ASSIGNEE(S): The United States of America as represented by the  
Secretary of the Army, Washington, DC, United States  
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6447796	B1	20020910
APPLICATION INFO.:	US 1997-920326		19970821 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-698896, filed on 16 Aug 1996, now patented, Pat. No. US 5705197 Continuation-in-part of Ser. No. US 1994-242960, filed on 16 May 1994, now patented, Pat. No. US 5693343 Continuation-in-part of Ser. No. US 1996-675895, filed on 5 Jul 1996, now patented, Pat. No. US 6217911 Continuation-in-part of Ser. No. US 1997-789734, filed on 27 Jan 1997, now patented, Pat. No. US 6309669 Continuation-in-part of Ser. No. US 1996-590973, filed on 24 Jan 1996, now abandoned Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995, now abandoned Continuation-in-part of Ser. No. US 1995-446148, filed on 22 May 1995		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Criares, Theodore J.		
LEGAL REPRESENTATIVE:	Arwine, Elizabeth, Harris, Charles H., Moran, John Francis		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	24 Drawing Figure(s); 21 Drawing Page(s)		
LINE COUNT:	1770		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 5 OF 17 USPATFULL on STN

TI Chemotherapeutic treatment of bacterial infections with an antibiotic  
encapsulated within a biodegradable polymeric matrix  
AB Biodegradable pharmaceutical compositions and method for treating  
bacterial infections therein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:152238 USPATFULL  
TITLE: Chemotherapeutic treatment of bacterial infections with  
an antibiotic encapsulated within a biodegradable  
polymeric matrix  
INVENTOR(S): **Setterstrom, Jean A.**, Silver Spring, MD,  
United States  
Jacob, Elliot, Silver Spring, MD, United States  
Tice, Thomas R., Birmingham, AL, United States(4)  
PATENT ASSIGNEE(S): The United States of America as represented by the  
Secretary of the Army, Washington, DC, United States  
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6410056	B1	20020625
APPLICATION INFO.:	US 1995-446148		19950522 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-209350, filed on 7 Jan 1994, now abandoned Continuation-in-part of Ser. No. US 1990-493597, filed on 15 Mar 1990, now abandoned Continuation-in-part of Ser. No. US		

1984-590308, filed on 16 Mar 1984, now abandoned  
DOCUMENT TYPE: Utility  
FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Page, Thurman K.  
ASSISTANT EXAMINER: Howard, S.  
LEGAL REPRESENTATIVE: Arwine, Elizabeth, Harris, Charles H., Moran, John Francis  
NUMBER OF CLAIMS: 47  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)  
LINE COUNT: 1607  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 6 OF 17 USPATFULL on STN

TI Therapeutic treatment and prevention of infections with a bioactive materials encapsulated within a biodegradable-biocompatible polymeric matrix  
AB Novel burst-free, sustained release biocompatible and biodegradable microcapsules which can be programmed to release their active core for variable durations ranging from 1-100 days in an aqueous physiological environment. The microcapsules are comprised of a core of polypeptide or other biologically active agent encapsulated in a matrix of poly(lactide/glycolide) copolymer, which may contain a pharmaceutically-acceptable adjuvant, as a blend of uncapped free carboxyl end group and end-capped forms ranging in ratios from 100/0 to 1/99.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:190752 USPATFULL  
TITLE: Therapeutic treatment and prevention of infections with a bioactive materials encapsulated within a biodegradable-biocompatible polymeric matrix  
INVENTOR(S): **Setterstrom, Jean A.**, Alpharetta, GA, United States  
Van Hamont, John E., Fort Meade, MD, United States  
Reid, Robert H., McComas, CT, United States  
Jacob, Elliot, Silver Spring, MD, United States  
Jeyanthi, Ramasubbu, Columbia, MD, United States  
Boedeker, Edgar C., Chevy Chase, MD, United States  
McQueen, Charles E., Olney, MD, United States  
Jarboe, Daniel L., Silver Spring, MD, United States  
Cassels, Frederick, Ellicott City, MD, United States  
Brown, William, Denver, CO, United States  
Thies, Curt, Ballwin, MO, United States  
Tice, Thomas R., Birmingham, AL, United States  
Roberts, F. Donald, Dover, MA, United States  
Friden, Phil, Bedford, MA, United States(4)  
PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Army, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6309669	B1	20011030
APPLICATION INFO.:	US 1997-789734		19970127 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-590973, filed on 24 Jan 1996, now abandoned Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995, now abandoned Continuation of Ser. No. US 1984-590308, filed on 6 Mar 1984, now abandoned And Ser. No. US 789734 Continuation-in-part of Ser. No. US 1995-446148, filed on 22 May 1995 Continuation-in-part of Ser. No. US 1992-867301, filed on 10 Apr 1992, now patented, Pat. No. US 5417986, issued on 23 May 1995		



Continuation-in-part of Ser. No. US 1984-590308, filed  
on 16 Mar 1984, now abandoned

DOCUMENT TYPE: Utility  
FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Harrison, Robert H.  
LEGAL REPRESENTATIVE: Nash, Caroline, Arwine, Elizabeth  
NUMBER OF CLAIMS: 25  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 87 Drawing Figure(s); 85 Drawing Page(s)  
LINE COUNT: 6182  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 7 OF 17 USPATFULL on STN

TI sustained release non-steroidal, anti-inflammatory and lidocaine PLGA  
microspheres

AB A controlled release microcapsule pharmaceutical formulation for  
burst-free, sustained, programmable release of a non-steroidal,  
antiinflammatory drug over a duration from 24 hours to 2 months,  
comprising: a non-steroidal, antiinflammatory drug and a blend of  
biocompatible, biodegradable poly (lactide/glycolide).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:55489 USPATFULL  
TITLE: sustained release non-steroidal, anti-inflammatory and  
lidocaine PLGA microspheres  
INVENTOR(S): Vaughn, William M., Silver Spring, MD, United States  
Van Hamont, John E., Ft. Meade, MD, United States  
Setterstrom, Jean A., Alpharetta, GA, United  
States  
PATENT ASSIGNEE(S): The United States of America as represented by the  
Secretary of the Army, Washington, DC, United States  
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6217911	B1	20010417
APPLICATION INFO.:	US 1996-675895		19960705 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Harrison, Robert H.		
LEGAL REPRESENTATIVE:	Arwine, Elizabeth, Harris, Charles H.		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	861		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 8 OF 17 USPATFULL on STN

TI Vaccines against intracellular pathogens using antigens encapsulated  
within biodegradable-biocompatible microspheres

AB This invention relates to parenteral and mucosal vaccines against  
diseases caused by intracellular pathogens using antigens encapsulated  
within a biodegradable-biocompatible microspheres(matrix).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:64760 USPATFULL  
TITLE: Vaccines against intracellular pathogens using antigens  
encapsulated within biodegradable-biocompatible  
microspheres  
INVENTOR(S): Burnett, Paul R., Silver Spring, MD, United States  
Van Hamont, John E., Ft. Meade, MD, United States  
Reid, Robert H., Kensington, MD, United States

**Setterstrom, Jean A.**, Alpharetta, GA, United States  
Van Cott, Thomas C., Brookeville, MD, United States  
Birx, Debrah L., Potomac, MD, United States  
PATENT ASSIGNEE(S): The United States of America as represented by the  
Secretary of the Army, Washington, DC, United States  
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5762965		19980609
APPLICATION INFO.:	US 1996-598874		19960209 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-242960, filed on 16 May 1994 And Ser. No. US 1995-446149, filed on 22 May 1995 which is a continuation of Ser. No. US 1984-590308, filed on 16 Mar 1984, now abandoned , said Ser. No. US -242960 which is a continuation-in-part of Ser. No. US 1992-867301, filed on 10 Apr 1992, now patented, Pat. No. US 5417986 which is a continuation-in-part of Ser. No. US 1991-805721, filed on 21 Nov 1991, now abandoned which is a continuation-in-part of Ser. No. US 1991-690485, filed on 24 Apr 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-521945, filed on 11 May 1990, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Criares, Theodore J.		
LEGAL REPRESENTATIVE:	Bellamy, Werten F. W.		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	315		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 9 OF 17 USPATFULL on STN

TI Extraction process for producing PLGA microspheres

AB A hybrid evaporation-extraction process for preparing microspheres of a p(DL-lactide-to-glycolide) biodegradable polymer, comprising:

a. preparing a lyophilized biologically active material-sucrose matrix; adding acetonitrile solvent to biologically active material-sucrose matrix to form a solution;

b. preparing a solution of a biodegradable poly (DL-lactide-co-glycolide) polymer by adding acetonitrile solvent to the polymer;

c. adding the biodegradable poly (DL-lactide-co-glycolide) polymer acetonitrile solution to the biologically active material-sucrose acetonitrile solution;

d. adding with stirring an oil containing lecithin to the poly (DL-lactide-co-glycolide) polymer-sucrose-biologically active material solution to evaporate acetonitrile and form an emulsion containing microspheres of poly (DL-lactide-co-glycolide) biodegradable polymers;

e. adding the emulsion from step d. into a solvent selected from heptane, hexane, pentane or isopropanol; and

f. collecting microspheres of poly (DL-lactide-co-glycolide) biodegradable polymers of from 1.0 to about 10.0 micrometers after filtration and washing with a fresh solvent selected from heptane, hexane, pentane or isopropanol.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:1490 USPATFULL  
TITLE: Extraction process for producing PLGA microspheres  
INVENTOR(S): Van Hamont, John, Ft. Meade, MD, United States  
Thies, Curt, Ballwin, MO, United States  
Reid, Robert H., Kensington, MD, United States  
McQueen, Charles E., Olney, MD, United States  
Setterstrom, Jean A., Alpharetta, GA, United States  
PATENT ASSIGNEE(S): The United States of America as represented by the  
Secretary of the Army, Washington, DC, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5705197		19980106
APPLICATION INFO.:	US 1996-698896		19960816 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-242960, filed on 16 May 1994		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Criares, Theodore J.		
LEGAL REPRESENTATIVE:	Bellamy, Werten F. W.		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	464		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 10 OF 17 USPATFULL on STN

TI Microsphere drug application device  
AB Apparatus and methods for dispensing medicinals encapsulated in a biodegradable polymer in surgical and other wounds are described. The apparatus, a microcapsule drug applicator, allows the caregiver to implant or spread measured and uniform quantities of microencapsulated medicinals in or on surgical or traumatic wounds to prevent and/or treat infections. Specific examples where microencapsulated antibiotics may prove useful include, soft-tissue wounds, following debridement and reduction or fixation of open fractures, to osteomyelitic bone after surgical debridement, after surgical insertion of prostheses such as hip/knee replacements (arthroplasty), and following vascular surgery or grafting.

ACCESSION NUMBER: 95:105307 USPATFULL  
TITLE: Microsphere drug application device  
INVENTOR(S): Setterstrom, Jean A., Silver Spring, MD,  
United States  
Jacob, Elliot, Silver Spring, MD, United States  
Franz, Walter K., Annapolis, MD, United States  
PATENT ASSIGNEE(S): The United States of America as represented by the  
Secretary of the Army, Washington, DC, United States  
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5470311		19951128
APPLICATION INFO.:	US 1994-248050		19940524 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1990-493597, filed on 15 Mar 1990, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Maglione, Corrine M.		
LEGAL REPRESENTATIVE:	Moran, John Francis, Lane, Anthony T.		
NUMBER OF CLAIMS:	4		

EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 3 Drawing Page(s)  
LINE COUNT: 336

L12 ANSWER 11 OF 17 USPATFULL on STN

TI Vaccines against diseases caused by enteropathogenic organisms using  
antigens encapsulated within biodegradable-biocompatible microspheres  
AB This invention is directed to oral parenteral and intestinal vaccines  
and eir use against diseases caused by enteropathogenic organisms using  
antigens encapsulated within biodegradable-biocompatible microspheres.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 95:45359 USPATFULL  
TITLE: Vaccines against diseases caused by enteropathogenic  
organisms using antigens encapsulated within  
biodegradable-biocompatible microspheres  
INVENTOR(S): Reid, Robert H., Kensington, MD, United States  
Boedeker, Edgar C., Chevy Chase, MD, United States  
van Hamont, John E., Shape, Belgium  
**Setterstrom, Jean A.**, Takoma Park, MD, United  
States  
PATENT ASSIGNEE(S): The United States of America as represented by the  
Secretary of the Army, Washington, DC, United States  
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5417986		19950523
APPLICATION INFO.:	US 1992-867301		19920410 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1991-805721, filed on 21 Nov 1991, now abandoned which is a continuation-in-part of Ser. No. US 1991-690485, filed on 24 Apr 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-521945, filed on 11 May 1990, now abandoned which is a continuation-in-part of Ser. No. US 1990-493597, filed on 15 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US 1984-590308, filed on 16 Mar 1984		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Henley, III, Raymond J.		
ASSISTANT EXAMINER:	Criares, T. J.		
LEGAL REPRESENTATIVE:	Lane, Anthony T., Reichert, Earl T., Bellamy, Werten F. W.		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	71 Drawing Figure(s); 70 Drawing Page(s)		
LINE COUNT:	2736		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 12 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI Sustained release non-steroidal, anti-inflammatory and lidocaine PLGA  
microspheres.  
AB A controlled release microcapsule pharmaceutical formulation for  
burst-free, sustained, programmable release of a non-steroidal,  
antiinflammatory drug over a duration from 24 hours to 2 months,  
comprising: a non-steroidal, antiinflammatory drug and a blend of  
biocompatible, biodegradable poly (lactide/glycolide).  
ACCESSION NUMBER: 2003:172843 BIOSIS  
DOCUMENT NUMBER: PREV200300172843  
TITLE: Sustained release non-steroidal, anti-inflammatory and  
lidocaine PLGA microspheres.  
AUTHOR(S): Vaughn, William M. [Inventor, Reprint Author]; Van Hamont,

John E. [Inventor]; **Setterstrom, Jean A.**  
[Inventor]  
CORPORATE SOURCE: Silver Spring, MD, USA  
ASSIGNEE: The United States of America as represented by  
the Secretary of the Army  
PATENT INFORMATION: US 6528097 March 04, 2003  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Mar 4 2003) Vol. 1268, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 2 Apr 2003  
Last Updated on STN: 2 Apr 2003

L12 ANSWER 13 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI Sustained release hydrophobic bioactive PLGA microspheres.  
AB A controlled release microcapsulate pharmaceutical formulation for  
burst-free, sustained, programmable release of hydrophobic bioactive agent  
over a duration from 24 hours to 100 days comprising: and a blend of  
end-capped uncapped biocompatible, biodegradable poly(lactide/glycolide).

ACCESSION NUMBER: 2002:558004 BIOSIS  
DOCUMENT NUMBER: PREV200200558004  
TITLE: Sustained release hydrophobic bioactive PLGA microspheres.  
AUTHOR(S): Vook, Noelle Christine [Inventor, Reprint author]; Jacob,  
Elliott [Inventor]; **Setterstrom, Jean A.**  
[Inventor]; van Hamont, John [Inventor]; Vaughan, William  
[Inventor]; Duong, Ha [Inventor]  
CORPORATE SOURCE: Schaumburg, IL, USA  
ASSIGNEE: The United States of America as represented by  
the Secretary of the Army  
PATENT INFORMATION: US 6447796 September 10, 2002  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Sep. 10, 2002) Vol. 1262, No. 2.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 30 Oct 2002  
Last Updated on STN: 30 Oct 2002

L12 ANSWER 14 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI Chemotherapeutic treatment of bacterial infections with an antibiotic  
encapsulated within a biodegradable polymeric matrix.  
AB Biodegradable pharmaceutical compositions and method for treating  
bacterial infections therein.

ACCESSION NUMBER: 2002:423667 BIOSIS  
DOCUMENT NUMBER: PREV200200423667  
TITLE: Chemotherapeutic treatment of bacterial infections with an  
antibiotic encapsulated within a biodegradable polymeric  
matrix.  
AUTHOR(S): **Setterstrom, Jean A.** [Inventor, Reprint author];  
Jacob, Elliot [Inventor]; Tice, Thomas R. [Inventor]  
CORPORATE SOURCE: Silver Spring, MD, USA  
ASSIGNEE: The United States of America as represented by  
the Secretary of the Army  
PATENT INFORMATION: US 6410056 June 25, 2002  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (June 25, 2002) Vol. 1259, No. 4.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 7 Aug 2002

Last Updated on STN: 7 Aug 2002

L12 ANSWER 15 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI Therapeutic treatment and prevention of infections with a bioactive  
materials encapsulated within a biodegradable-biocompatible polymeric  
matrix.  
AB Novel burst-free, sustained release biocompatible and biodegradable  
microcapsules which can be programmed to release their active core for  
variable durations ranging from 1-100 days in an aqueous physiological  
environment. The microcapsules are comprised of a core of polypeptide or  
other biologically active agent encapsulated in a matrix of  
poly(lactide/glycolide) copolymer, which may contain a  
pharmaceutically-acceptable adjuvant, as a blend of upcapped free carboxyl  
end group and end-capped forms ranging in ratios from 100/0 to 1/99.  
ACCESSION NUMBER: 2002:6987 BIOSIS  
DOCUMENT NUMBER: PREV200200006987  
TITLE: Therapeutic treatment and prevention of infections with a  
bioactive materials encapsulated within a  
biodegradable-biocompatible polymeric matrix.  
AUTHOR(S): **Setterstrom, Jean A.** [Inventor, Reprint author];  
Van Hamont, John E. [Inventor]; Reid, Robert H. [Inventor];  
Jacob, Elliot [Inventor]; Jeyanthi, Ramasubbu [Inventor];  
Boedeker, Edgar C. [Inventor]; McQueen, Charles E.  
[Inventor]; Jarboe, Daniel L. [Inventor]; Cassels,  
Frederick [Inventor]; Brown, William [Inventor]; Thies,  
Curt [Inventor]; Tice, Thomas R. [Inventor]; Roberts, F.  
Donald [Inventor]; Friden, Phil [Inventor]  
CORPORATE SOURCE: Alpharetta, GA, USA  
ASSIGNEE: The United States of America as represented by  
the Secretary of the Army  
PATENT INFORMATION: US 6309669 October 30, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Oct. 30, 2001) Vol. 1251, No. 5. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 28 Dec 2001  
Last Updated on STN: 25 Feb 2002

L12 ANSWER 16 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI Effect of microencapsulated ampicillin on cell-mediated immune responses  
in mice.  
AB The effects of free ampicillin, microencapsulated ampicillin anhydrate  
(MEAA) and antibiotic-free microspheres on the cell-mediated immune  
response in Balb/c mice were measured by lymphoproliferation assay,  
delayed-type hypersensitivity (DTH) and cytokine production. Injection  
into mice for seven consecutive days with equivalent subcutaneous doses of  
ampicillin, MEAA or placebo microspheres did not produce any consistent  
change in lymphocyte proliferation nor did it affect DTH responses or  
interleukin-2 production. Although the production of interleukin-4 in  
mice treated with ampicillin or MEAA increased compared with the control  
mice, this increase was not statistically significant. These results  
indicate that ampicillin and MEAA have similar effects on cell-mediated  
immunity in mice.  
ACCESSION NUMBER: 1998:95204 BIOSIS  
DOCUMENT NUMBER: PREV199800095204  
TITLE: Effect of microencapsulated ampicillin on cell-mediated  
immune responses in mice.  
AUTHOR(S): Barsoum, Ibrahim S. [Reprint author]; Kopydlowski, Karen  
M.; Burge, Robert; **Setterstrom, Jean A.**  
CORPORATE SOURCE: c/o Col. Leslie Raulin, US Army Dental Res. Detachment,  
Walter Reed Army Inst. Res., 2701 Sheridan Rd., Build. I-H,  
Great Lakes, IL 60088-5259, USA  
SOURCE: Journal of Antimicrobial Chemotherapy, (Nov., 1997) Vol.

40, No. 5, pp. 721-724. print.  
CODEN: JACHDX. ISSN: 0305-7453.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 25 Feb 1998  
Last Updated on STN: 6 Apr 1998

L12 ANSWER 17 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI A comparison of sustained bactericidal activity from tobramycin-loaded  
poly(lactide-co-glycolide) (PLG) microspheres produced by solvent  
extraction and by solvent evaporation.  
ACCESSION NUMBER: 1995:290152 BIOSIS  
DOCUMENT NUMBER: PREV199598304452  
TITLE: A comparison of sustained bactericidal activity from  
tobramycin-loaded poly(lactide-co-glycolide) (PLG)  
microspheres produced by solvent extraction and by solvent  
evaporation.  
AUTHOR(S): Madden, Emily F.; Pak, Sang J.; Jacob, Elliot;  
**Setterstrom, Jean A.**; Van Hamont, John E.  
CORPORATE SOURCE: Walter Reed Army Inst. Res., Washington, DC, USA  
SOURCE: Abstracts of the General Meeting of the American Society  
for Microbiology, (1995) Vol. 95, No. 0, pp. 145.  
Meeting Info.: 95th General Meeting of the American Society  
for Microbiology. Washington, D.C., USA. May 21-25, 1995.  
ISSN: 1060-2011.  
DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LANGUAGE: English  
ENTRY DATE: Entered STN: 5 Jul 1995  
Last Updated on STN: 5 Jul 1995

=> e reid, r/au

E1	1	REID ZACHARIAH J/AU
E2	1	REID ZADOCK J B W/AU
E3	0 -->	REID, R/AU
E4	2	REIDA/AU
E5	1	REIDA A K/AU
E6	2	REIDA A M/AU
E7	1	REIDA ABIGAIL K/AU
E8	1	REIDA EIICHI/AU
E9	1	REIDA K B M/AU
E10	1	REIDA N/AU
E11	2	REIDA N V/AU
E12	1	REIDA NIKOLAI V/AU

=> e jacob, e/au

E1	1	JACOB ZIPPI/AU
E2	1	JACOB ZVI CHARLES/AU
E3	0 -->	JACOB, E/AU
E4	3	JACOBA/AU
E5	1	JACOBA B/AU
E6	1	JACOBA G/AU
E7	1	JACOBA H L/AU
E8	1	JACOBA J/AU
E9	2	JACOBA K G C/AU
E10	1	JACOBA M I/AU
E11	1	JACOBA SALINAS M/AU
E12	1	JACOBACCI F/AU

=> s vaccine

L13 960395 VACCINE

=> d his

(FILE 'HOME' ENTERED AT 11:44:27 ON 09 FEB 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS, JAPIO, FSTA,  
JICST-EPLUS, CEN, CEABA-VTB' ENTERED AT 11:44:54 ON 09 FEB 2004

L1 0 S CONTROLLED RELEASE () BRUST FREE SUSTAINED PROGRAMMABLE RELEA  
L2 0 S CFA/I  
L3 256 S POLYLACTIDE () GLYCOLIDE  
L4 58 S BIOCOMPATIBLE AND BIODEGRADABLE COMPOSITION  
L5 0 S BRUST FREE PROGRAMMABLE RELEASE FORM  
L6 320473 S E. COLI  
L7 33475 S MICROSPHERE  
L8 9 S L7 AND PROGRAMMABLE RELEASE  
L9 10 S L7 AND BURST FREE  
L10 8 S L9 AND L8  
L11 1 S L3 AND L10  
E SETTERSTROM, J/AU  
L12 17 S E1  
E REID, R/AU  
E JACOB, E/AU  
L13 960395 S VACCINE

=> s l13 and l7

L14 3022 L13 AND L7

=> s l14 and encapsulated

L15 2360 L14 AND ENCAPSULATED

=> s l15 and end capped form

L16 2 L15 AND END CAPPED FORM

=> d l16 ti abs ibib tot

L16 ANSWER 1 OF 2 USPATFULL on STN

TI Vaccines against diseases caused by enteropathogenic organisms using  
antigens **encapsulated** within biodegradable-biocompatible  
microspheres

AB This invention relates to an immunostimulating composition comprising  
encapsulating microspheres, which may contain a pharmaceutically-  
acceptable adjuvant, wherein said microspheres having a diameter between  
1 nanometer (nm) to 10 microns (um) are comprised of (a) a  
biodegradable-biocompatible poly(DL-lactide-co-glycolide) as the bulk  
matrix, wherein the relative ratio between the amount of lactide and  
glycolide components are within the range of 40:60 to 0:100 and wherein  
said poly (DL-lactide-co-glycolide) is present in an uncapped form and  
an **end-capped form** wherein a ratio of  
uncapped to end-capped forms is 99/1 to 1/99, and (b) an immunogenic  
substance comprising Colony Factor Antigen (CFA/II), hepatitis B surface  
antigen (HbsAg), or a physiologically similar antigen that serves to  
elicit the production of antibodies in animal subjects. The preparation  
of its composition and its use as a **vaccine** is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:231691 USPATFULL

TITLE: Vaccines against diseases caused by enteropathogenic  
organisms using antigens **encapsulated** within  
biodegradable-biocompatible microspheres

INVENTOR(S): Reid, Robert H., Kensington, MD, UNITED STATES  
Setterstrom, Jean A., Alpharetta, GA, UNITED STATES  
Boedeker, Edgar, Crownsville, MD, UNITED STATES  
VanHamont, John, Fort Meade, MD, UNITED STATES  
McQueen, Charles, Olney, MD, UNITED STATES  
Cassels, Frederick, Ellicott City, MD, UNITED STATES



	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003161889	A1	20030828
APPLICATION INFO.:	US 2002-224125	A1	20020820 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-9986, filed on 21 Jan 1998, PENDING Continuation-in-part of Ser. No. US 1997-789734, filed on 27 Jan 1997, GRANTED, Pat. No. US 6309669 Continuation-in-part of Ser. No. US 1994-362944, filed on 23 Dec 1994, ABANDONED Continuation of Ser. No. US 1993-34949, filed on 22 Mar 1993, ABANDONED Continuation-in-part of Ser. No. US 1992-867301, filed on 10 Apr 1992, GRANTED, Pat. No. US 5417986 Continuation-in-part of Ser. No. US 1991-805721, filed on 21 Nov 1991, ABANDONED Continuation-in-part of Ser. No. US 1991-690485, filed on 24 Apr 1991, ABANDONED Continuation-in-part of Ser. No. US 1990-521945, filed on 11 May 1990, ABANDONED Continuation-in-part of Ser. No. US 1990-493597, filed on 15 Mar 1990, ABANDONED Continuation-in-part of Ser. No. US 1984-590308, filed on 16 Mar 1984, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Nash & Titus, LLC, 3415 Brookeville Road, Brookeville, MD, 20833		
NUMBER OF CLAIMS:	33		
EXEMPLARY CLAIM:	22		
NUMBER OF DRAWINGS:	70 Drawing Page(s)		
LINE COUNT:	3915		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L16 ANSWER 2 OF 2 USPATFULL on STN

TI Therapeutic treatment and prevention of infections with a bioactive materials **encapsulated** within a biodegradable-biocompatible polymeric matrix

AB Novel burst-free, sustained release biocompatible and biodegradable microcapsules which can be programmed to release their active core for variable durations ranging from 1-100 days in an aqueous physiological environment. The microcapsules are comprised of a core of polypeptide or other biologically active agent **encapsulated** in a matrix of poly(lactide/glycolide) copolymer, which may contain a pharmaceutically-acceptable adjuvant, as a blend of uncapped free carboxyl end group and end-capped forms ranging in ratios from 100/0 to 1/99.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:190752 USPATFULL

TITLE: Therapeutic treatment and prevention of infections with a bioactive materials **encapsulated** within a biodegradable-biocompatible polymeric matrix

INVENTOR(S): Setterstrom, Jean A., Alpharetta, GA, United States  
 Van Hamont, John E., Fort Meade, MD, United States  
 Reid, Robert H., McComas, CT, United States  
 Jacob, Elliot, Silver Spring, MD, United States  
 Jeyanthi, Ramasubbu, Columbia, MD, United States  
 Boedeker, Edgar C., Chevy Chase, MD, United States  
 McQueen, Charles E., Olney, MD, United States  
 Jarboe, Daniel L., Silver Spring, MD, United States  
 Cassels, Frederick, Ellicott City, MD, United States  
 Brown, William, Denver, CO, United States  
 Thies, Curt, Ballwin, MO, United States  
 Tice, Thomas R., Birmingham, AL, United States  
 Roberts, F. Donald, Dover, MA, United States  
 Friden, Phil, Bedford, MA, United States(4)

PATENT ASSIGNEE(S): The United States of America as represented by the

Secretary of the Army, Washington, DC, United States  
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6309669	B1	20011030
APPLICATION INFO.:	US 1997-789734		19970127 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-590973, filed on 24 Jan 1996, now abandoned Continuation-in-part of Ser. No. US 1995-446149, filed on 22 May 1995, now abandoned Continuation of Ser. No. US 1984-590308, filed on 6 Mar 1984, now abandoned And Ser. No. US 789734 Continuation-in-part of Ser. No. US 1995-446148, filed on 22 May 1995 Continuation-in-part of Ser. No. US 1992-867301, filed on 10 Apr 1992, now patented, Pat. No. US 5417986, issued on 23 May 1995 Continuation-in-part of Ser. No. US 1984-590308, filed on 16 Mar 1984, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Harrison, Robert H.		
LEGAL REPRESENTATIVE:	Nash, Caroline, Arwine, Elizabeth		
NUMBER OF CLAIMS:	25		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	87 Drawing Figure(s); 85 Drawing Page(s)		
LINE COUNT:	6182		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

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(FILE 'HOME' ENTERED AT 11:44:27 ON 09 FEB 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS, JAPIO, FSTA, JICST-EPLUS, CEN, CEABA-VTB' ENTERED AT 11:44:54 ON 09 FEB 2004

L1	0 S CONTROLLED RELEASE () BRUST FREE SUSTAINED PROGRAMMABLE RELEA
L2	0 S CFA/I
L3	256 S POLYLACTIDE () GLYCOLIDE
L4	58 S BIOCOMPATIBLE AND BIODEGRADABLE COMPOSITION
L5	0 S BRUST FREE PROGRAMMABLE RELEASE FORM
L6	320473 S E. COLI
L7	33475 S MICROSPHERE
L8	9 S L7 AND PROGRAMMABLE RELEASE
L9	10 S L7 AND BURST FREE
L10	8 S L9 AND L8
L11	1 S L3 AND L10 E SETTERSTROM, J/AU
L12	17 S E1 E REID, R/AU E JACOB, E/AU
L13	960395 S VACCINE
L14	3022 S L13 AND L7
L15	2360 S L14 AND ENCAPSULATED
L16	2 S L15 AND END CAPPED FORM